



PATENT
Attorney Docket No.: 388506
Express Mail Label No.: EV413218532US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s) Victor F. Petrenko, et al.
Serial No. 10/057,859
Filed January 24, 2002
For High Frequency De-Icing Of
Cableways

Examiner Leonid M. Fastovsky
Group Art No. 3742
Confirmation No. 2937

September 10, 2004

Mail Stop AMENDMENT
Commissioner For Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

This Information Disclosure Statement is submitted:

- ☐ under 37 CFR 1.97(b), or
(Within three months of filing national application, or date of entry of national application, or before mailing date of first office action on the merits, whichever occurs last)
- ☒ under 37 CFR 1.97(c) together with either a:
☐ Statement under 37 CFR 1.97(e), or
☒ a \$180 fee under 37 CFR 1.17(p), or
(After the CFR 1.97(b) time period, but before final action or notice of allowance, which ever occurs first)
- ☐ under 37 CFR 1.97(d) together with a:
☐ Statement under 37 CFR 1.97(e)(1) or (2), and
☐ a \$180.00 fee set forth in 37 CFR 1.17(p).
(Filed after final action, a notice of allowance, on or before payment of issue fee)

Please charge to Deposit Account 12-0600 the sum of \$180.00. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account 12-0600 pursuant to 37 CFR 1.25.

☒ Applicant(s) submit herewith Form PTO 1449 – Information Disclosure Citation together with copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of the application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

☐ A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individual(s) designated in 37 CFR 1.56(c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a

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search report or other action by a foreign patent office in a counter part foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith

It is requested that the information disclosed herein be made of record in this application

Respectfully submitted,

LATHROP & GAGE LLC



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PTO/SB/08a (08-03)

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 6

Complete if Known

Application Number	10/057,859
Filing Date	January 24, 2002
First Named Inventor	Victor F. Petrenko
Art Unit	3742
Examiner Name	Leonid Fastovsky
Attorney Docket Number	388506

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		1,157,344	10-19-1915	E. Thomson	
		1,656,329	01-17-1928	E. G. Sievert et al	
		2,496,279	02-07-1950	Ely, et al.	
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		4,296,298	10-20-1981	Macmaster, et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
		SU26363	Aug-31	Unknown		
		SU587548	Jan-78	Dostman, et al.		
		SU936040	6/15/1982	Unknown		
		CN1079578		Unknown		
		EP1168888	1/2/2002	Nippon Sheet Glass Co. Ltd.		
		GB2259287	3/10/1993	Golls Royce		
		FR2570333	3/21/1986	Mendola		
		JP5292638	Nov-93	Unknown		
		JP7023520	Jan-95	Unknown		

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Sheet 2 of 6

Complete if Known

Application Number	10/057,859
Filing Date	January 24, 2002
First Named Inventor	Victor F. Petrenko
Art Unit	3742
Examiner Name	Leonid M. Fastovsky
Attorney Docket Number	388506

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		Number - Kind Code ² (if known)			
		4,321,296	03-23-1982	Rougier	
		4,330,702	05-01-1982	Cheng	
		4,330,703	05-18-1992	Horsma, et al.	
		4,376,598	03-01-1983	Brouns, et al.	
		4,638,960	01-27-1987	Straube, et al.	
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		5,112,449	05-01-1992	Jozefowicz, et al.	

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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
		JP11041768	2/12/1999	Fujikura Ltd.		
		JP57060684	4/12/1982	Unknown		
		GB2 252 285 A	8/15/1992	British Aerospace Public Limited Company		
		DE44 40 634	7/25/1996	Gustin		
		WO 94/20819	9/15/1994	Innovative Dynamics, Inc.		
		WO 95/30495	11/16/1995	Donnelly Corporation		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	4	of	6
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Complete if Known

Application Number	10/057,859
Filing Date	January 24, 2002
First Named Inventor	Victor F. Petrenko
Art Unit	3742
Examiner Name	Leonid Fastovsky
Attorney Docket Number	388506

U.S. PATENT DOCUMENTS

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		Number - Kind Code ² (if known)			
		5,947,418	09-07-1999	Bessiere, et al.	
		6,018,152	01-25-2000	Allaire, et al.	
		6,027,075	02-22-2000	Petrenko	
		6,031,214	02-29-2000	Bost, et al.	
		6,102,333	08-01-2000	Gerardi, et al.	
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		6,396,172	05-01-2002	Couture	
		6,427,946	08-06-2002	Petrenko	
		6,478,259	11-01-2002	Cordaro	
		6,492,629	12-01-2002	Sopory	
		6,550,508	04-01-2003	Yamaguchi, et al.	
		6,570,333	05-01-2003	Miller, et al.	
		6,576,115	06-01-2003	Petrenko	

FOREIGN PATENT DOCUMENTS

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Date
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				First Named Inventor	Victor F. Petrenko
				Art Unit	3742
				Examiner Name	Leonid Fastovsky
				Attorney Docket Number	388506
Sheet	5	of	6		

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Examiner Signature		Date Considered	
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 6 of 6

Complete if Known

Application Number	10/057,859
Filing Date	January 24, 2002
First Named Inventor	Victor F. Petrenko
Art Unit	3742
Examiner Name	Leonid Fastovsky
Attorney Docket Number	388506

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		"Icing Wind Tunnel", Meeting the Challenges of Ice Testing In a World-Class Facility - BF Goodrich Aerospace Ice Protection Systems, 4 pages	
		"New Goodrich Wind Tunnel Tests Advanced Aircraft De-Icing Systems", by Edward H. Phillips, Uniontown, Ohio, Aviation Week Magazine, Oct. 3, 1998, 3 pages.	
		"The Evolution of Ice Protection Creates a Revolution Ice Detection", BFGoodrich Aerospace Ice Protection Systems, 2 pages, No date.	
		AIA 94-0714, "Interface Influences Upon Ice Adhesion to Airfoil Materials", by A. Reich, BF Goodrich Aerospace/De-Icing Systems, Brecksville/Uniontown, OH (32nd Aerospace Sciences Meeting and Exhibit, January 10-13, 1994) pages 1-8	
		Brecksville/Uniontown, OH (32.sup.nd Aerospace Sciences Meeting and Exhibit Jan. 10-13, 1994), pp. 1-8.	
		Electromechanical Phenomena in Ice; Victor F. Petrenko; Thayer School of Engineering Special Report 96-2; Feb. 1996.	
		Generation of electric fields by ice and snow friction, by Victor F. Petrenko and Smauel C. Colbeck, (May 1, 1995), pp. 4518-4521.	
		Generation of electric fields by ice and snow friction; Victor F. Petrenko; J. Appl. Phys. 77 (9), May 1, 1995; 1995 American Institute of Physics	
		Khusnatdinov N N et al: "Electrical Properties Of The Ice/Solid Interface" Journal Of Phisical Chemistry. B, Materials, Surfaces, Interfaces And Biophysical, Washington, D.C. US Vol. 101, 07-17-1997, pages 6212-6214	
		The effect of static electric fields on ice friction; Victor F. Petrenko; J. Appl. Phys. 76 (2), Jul. 15, 1994; 1994 American Institute of Physics.	

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